

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method of making a high-cleanliness steel excellent in cold workability and fatigue characteristic, said method comprising ~~the step of~~ adding a Li-containing substance selected from the group consisting of a Li-Si alloy, and/or Li_2CO_3 , and a combination thereof, having a Li content between 20 and 40% by mass, to a molten steel.

Claim 2 (Currently Amended): The method of making a high-cleanliness steel according to claim 1, characterized by adding a substance containing at least one of Ca, Mg, Na and K to the molten steel in addition to the Li-containing substance.

Claim 3 (Currently Amended): The method of making a high cleanliness steel according to claim 1 ~~or 2~~ characterized by adding the Li-containing substance to the molten steel after the completion of a series of ~~steps~~ operations of a ladle refining process including composition adjustment, temperature adjustment and slag refining to control the composition of the molten steel such that the molten steel has a total-Li content between 0. 020 and 20 ppm by mass and contains 1.0 or below of oxide inclusion ~~particle~~ particles having a major diameter of 20 μm or above, in 50 g of the steel wire.

Claim 4 (Currently Amended): The method of making a high-cleanliness steel according to claim 1 ~~or 2~~ characterized by adding the Li-containing substance at a final stage of a series of ~~steps~~ operations of a ladle refining process including composition adjustment, temperature adjustment and slag refining such that an oxide inclusion contained in the steel has a CaO content between 15 and 55% by mass, SiO_2 content between 20 and 70% by mass,

an Al₂O₃ content of 35% by mass or below, a MgO content of 20% by mass or below and a Li₂O content between 0.5 and 20% by mass.

Claim 5 (Currently Amended): The method of making a high-cleanliness steel according to ~~any one of claims 1 to 4~~ claim 1, characterized by adding the Li-containing substance to the molten steel contained in at least one of a ladle, a tundish for continuous casting, or and a mold for continuous casting.

Claim 6 (Currently Amended): The method of making a high-cleanliness steel according to ~~any one of claims 1 to 5~~ claim 1, characterized by adding the Li-containing substance to the molten steel by stirring the molten steel with iron tubular wires containing the Li-containing substance.

Claim 7 (Currently Amended): The method of making a high-cleanliness steel according to ~~any one of claims 1 to 5~~ claim 1, characterized by adding the Li-containing substance to the molten steel by blowing an inert gas carrying the Li-containing substance into the molten steel.

Claim 8 (Currently Amended): A high-cleanliness steel having a total-Li content between 0.020 and 20 ppm by mass and containing 1.0 or below ~~oxide of~~ oxide inclusion particle particles having a major diameter of 20 μm or above, in 50 g of the steel wire.

Claim 9 (Original): The high-cleanliness steel according to claim 8 wherein the total-Li/Si mass ratio representing the ratio in mass of the total amount of Li contained in the steel to the amount of Si contained in the steel is between 1×10^{-6} and 1000×10^{-6} .

Claim 10 (Original): A high-cleanliness steel having high fatigue strength and high cold workability containing an oxide inclusion having a CaO content between 15 and 55% by mass, SiO₂ content between 20 and 70% by mass, an Al₂O₃ content of 35% by mass or below, a MgO content of 20% by mass or below and a Li₂O content between 0.5 and 20% by mass.

Claim 11 (Original): The high-cleanliness steel according to claim 10, wherein the oxide inclusion has a Li₂O/SiO₂ mass ratio between 0.01 and 0.5.

Claim 12 (Currently Amended): The high-cleanliness steel according to claim 10 or 11, wherein the oxide inclusion has a SiO₂ content of 30% by mass or above and below 45% by mass.

Claim 13 (Currently Amended): The high-cleanliness steel according to ~~any one of claims 10 to 12~~ claim 10, wherein the oxide inclusion contains Na₂O and/or K₂O and the sum of Li₂O content, Na₂O content and K₂O content is between 0.5 and 20% by mass.

Claim 14 (Currently Amended): The high-cleanliness steel according to ~~claim 8 any one of claims 8 to 13~~, wherein the steel has a C content of 1.2% by mass or below, a Si content between 0.1 and 4% by mass, a Mn content between 0.1 and 2.0 % by mass, and an Al content of 0.01% by mass or below.

Claim 15 (Original): The high-cleanliness steel according to claim 14, wherein the steel has an O content of 0.005% by mass or below, a total-Mg content between 0.1 and 15 ppm by mass and a total-Ca content between 0.1 and 40 ppm by mass.

Claim 16 (Currently Amended): The high-cleanliness steel according to claim 14 or 15, wherein the steel contains at least one of Cr, Ni, V, Nb, W, Cu and Ti.

Claim 17 (Currently Amended): The high-cleanliness steel according to ~~any one of claims 14 to 16~~ claim 14, wherein the other elements of the steel are Fe and unavoidable impurities.

Claim 18 (New): The high-cleanliness steel according to claim 15, wherein the steel contains at least one of Cr, Ni, V, Nb, W, Cu and Ti.

Claim 19 (New): The high-cleanliness steel according to claim 15, wherein the other elements of the steel are Fe and unavoidable impurities.

Claim 20 (New): The high-cleanliness steel according to claim 16, wherein the other elements of the steel are Fe and unavoidable impurities.